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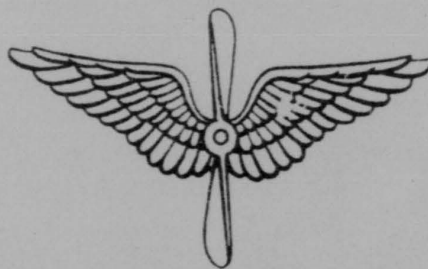
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EE-306-3  
FOREIGN

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# MONTHLY CHART AIRPLANE CHARACTERISTICS & PERFORMANCE



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James  
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1 AUGUST 1944

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PREFACE SHEET

EE-306-3

## MONTHLY CHART OF FOREIGN AIRPLANE CHARACTERISTICS AND PERFORMANCE

Characteristics and Performance data shown are evaluations of the latest information obtained from various sources including British, Army, and Navy Intelligence. The data itself is derived from estimates based on known characteristics and from actual flight tests of the aircraft in question. Figures shown here are constantly subject to change as later and more detailed information becomes available.

An attempt has been made to express the data in terms which are analagous to those used by the Army Air Forces for the expression of characteristics and performance in similar charts. Therefore the following definitions will be generally applicable:

ENGINE RATINGS are given for the engine as a unit, and do not include ram which may increase the ratings under flight conditions. NORMAL RATED POWER is the maximum power permissible for continuous use and may be obtained between sea level and the normal rated altitude of the engine. Normal rated altitude is the altitude at which normal rated power is developed at normal rated speed with full throttle under standard altitude conditions. (An engine with a two speed or two-stage supercharger has two or more normal rated altitudes). MILITARY RATED POWER is a maximum power permitted for short duration only. TAKE-OFF POWER is the maximum power designated by the manufacturers for use under sea level conditions.

SPEEDS: The high speed based on design gross weight is given at the critical altitude of the airplane (i.e. where best performance is obtained with the horsepower shown). CLIMB is determined with the design gross weight and using take-off and then maximum continuous power. TAKE-OFF and LANDING is based on design gross weight.

RANGE-FUELS-BOMBS: These columns should be used together and take into consideration the weight shown in the weight column. RANGE is based on ideal cruising conditions, utilizing best combination of power, altitude, etc., and do not include any safety factors or allowances for warm-up, take-off, climb, navigation variations, et. Practical ranges average 75% of the value shown or less.

ARMAMENT: Installations for design gross weight.

COMBAT PROTECTION includes Leak Proof (L.P.) Tanks, Armor and Bullet Proff (B.P.) Glass

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CONFIDENTIAL MONTHLY CHART AIRPLANE CHARACTERISTICS & PERFORMANCE

WALLACE B. BROWN

PAGE 1

DATE: 1 AUGUST 1944

MODEL & MFR. ENGINE	ENG. RATINGS NORMAL/ALT. MIL./CHIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH/ALT./B.P. LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL.-1.2 ENGS. OUT	T. O. & LAND T. O. OVER 30' OBS. LAND OVER 30' OBS.	RANGE with SPEEDS % POWER			WEIGHTS WEIGHTS WEIGHTS	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM					
BLACKBURN FIREBRAND ONE NAHUR BARRE III	1670/15250 1920/15000 3250	350/38000/-	11/20000 5250	1850	1025/258/-	200	NONE	9520 12550	50'10" 47'6" 370 SQ. FT.	4-20MM.-80		ONI 1/23/42 ETOLSA REPT. 274
BLACKBURN FOC I ONE BRIS. PERCEUSE VII	905/9900 7800/500 857	324/7500/-	25.6/15000 13200		550/140/-	140	NONE	5167 8542	48'10" 54'7" 312 SQ. FT.	4-105/500	NONE	MID-ONI 11/7/42
BLACKBURN SKUA I ONE BRIS. PERCEUSE VIII	905/9900 7800/500 857	224/5000/-	22.1/15500 29200		500/180/-	195	NONE	5940 8920 8976	46'12" 55'10" 310 SQ. FT.	5-305-500	PILOT ARMOR ONLY	MID-ONI 11/7/42
BOLTON PAUL DEFYANT I ONE RR-MERLIN 811	980/12250 1030/16250 880	304/17800/-	8.5/15000 30000	1500 2510	580/185/-	125	NONE	5918 7718	39'4" 38'0" 224 SQ. FT.	4-105-500	ARMOR L.P. TANKS	B.A.C. 5/12/42
BOLTON PAUL DEFYANT II ONE RR-MERLIN 811	1180/18000 1170/21000 1280	310/22000/-	7.0/15000 34200	1450 2570	480/175/-	125	NONE	5187 7350	38'4" 35'0" 224 SQ. FT.	4-505		B.A.C. 5/12/42
BRISTOL BEAUFIGHTER I TWO BRIS. HERCULES XI	1270/14000 1510/11250/ 1590	324/21750/-	5000	1710 2580	1515/205/-	550	NONE	15951 21100	57'10" 45'10" 451 SQ. FT.	4-20MM.-285 5-305-1000	ARMOR L.P. TANKS B.P. GLASS	M.A.P. DAYTON SAC
BRISTOL BEAUFIGHTER II TWO RR-MERLIN 811	1180/18000 1170/21000 1280	324/20400/-	9.5/15000 30000	2070 2505	1810/228/-	550	NONE	12895 20574	57'10" 41'5" 451 SQ. FT.	4-20MM.-285 5-305-1000	ARMOR L.P. TANKS B.P. GLASS	M.A.P. THRU DAYTON SAC 11/8/42
BRISTOL BEAUFIGHTER III TWO BRIS. HERCULES VI	1400/18800 1560/15800 1710	354/15500/-	7.8/15000 27800	1845 2450	1480/245/-	550	NONE	21322	57'10" 41'5" 451 SQ. FT.	4-20MM.-240 5-305-1000	ARMOR L.P. TANKS B.P. GLASS	M.A.P. THRU DAYTON SAC 11/8/42
DEHAVILLAND MOSQUITO VI TWO RR-MERLIN 811	1180/18000 1170/21000 1280	380/22000/-	7.9/20000 29500	2175 2535	1205/240/-	485	1000	14510 19922	56'10" 41'2" 450 SQ. FT.	4-20MM.-150 4-305-500		M.A.P. THRU DAYTON SAC 11/8/42
FAIREY FIREFLY ONE RR-GRIFFON II	1365/17000 1580/19000 1755	359/21000/-	21.2/20000 30600	1950	700/202/-		NONE	8751 11571	44'5" 37'0" 528 SQ. FT.	2-20MM.-175 2-20MM.-150		ONI 1/23/42 ETOLSA REPT. 274

NOTES:  
\* ESTIMATE  
AC-AIR CORPS  
DA-DEFENSE AID  
PO-PURCHASE ORDER

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CONFIDENTIAL MONTHLY CHART AIRPLANE CHARACTERISTICS & PERFORMANCE

PAGE 2

BRITISH FIGHTER

DATE: 1 AUGUST 1944

MODEL & MFR. ENGINE	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH/ALT./H.P. LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL.-1-2 ENGS. OUT	T. O. & LAND T. O. OVER 30' OBS. LAND OVER 30' OBS.	RANGE with FUEL with BOMBS at WEIGHTS		DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-EDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE	
					with @ SPEEDS & POWER	with @ SPEEDS & POWER					with @ SPEEDS & POWER
FAIREY FULMAR II ONE RR-MERLIN 29	1240/7250 1260/8770 1100	254/9500/- 74	20.3/23000 24000	- -	325/150/- -	185 -	NONE 500	40' 0" 47' 4" 478 SQ. FT.	8-1075-1000 OR 4-1075-100 L.P. TANKS B.P. GLASS	ARMOR L.P. TANKS	M.I.D.-ON 11/7/42
HAWKER HURRICANE IIS ONE RR-MERLIN XX	1180/18000 1170/21000 1280	335/22000/- -	5.9/15000 35600 1980	1250 1980	340/210/- 355/200/-	115 115	NONE NONE	40' 0" 31' 0" 258 SQ. FT.	12-305-500	ARMOR L.P. TANKS	S.A.C. 5/12/42
HAWKER HURRICANE IIC ONE RR-MERLIN XX	1180/18000 1170/21000 1280	325/20500/- -	- 36000	1750 2150	480/216/- -	115 -	NONE -	40' 0" 31' 0" 258 SQ. FT.	4-20MM.-100	ARMOR L.P. TANKS	Air Tech. SECT. ETOUSA REPT. NO. 274 10/29/42
HAWKER HURRICANE IIO ONE RR-MERLIN XX	1180/18000 1170/21000 1280	314/20000/- -	- 34500	- -	450/210/- -	- -	- NONE	40' 0" 31' 0" 258 SQ. FT.	3-403-500 2/40MM.-16	-	Air Tech. SECT. ETOUSA REPT. NO. 274 10/29/42
HAWKER TEMPEST I ONE NAPIER SABRE IV	1770/20000 1900/22000 2000	450/26000/- -	6.7/20000 38800 -	1265 2400	507/247/- -	850 850	- NONE	41' 0" 35' 6" 308 SQ. FT.	4-20MM.-	-	M.A.P. THRU DAYTON SAC 11/8/42
HAWKER TEMPEST II ONE BRIS. CENTAURUS IV	- 1780/18250	420/19000/- -	7.2/20000 59800 -	1850 2445	496/247/- -	230 -	NONE -	41' 0" 35' 6" 308 SQ. FT.	4-20MM.-	-	M.A.P. THRU DAYTON SAC 11/8/42
HAWKER TYPHOON IS ONE NAPIER SABRE II	1675/16250 1800/18250 2010	414/21000/- -	7.5/20000 34500 -	2600 2220	510/238/- 410/344/-	124 124	NONE NONE	41' 0" 32' 0" 297 SQ. FT.	12-305-500 OR 4-20MM.-150 B.P. GLASS	ARMOR L.P. TANKS B.P. GLASS	M.I.D. 10/24/41 CABLE 6/16/41
MARTIN-BAKER ONE NAPIER SABRE II	1675/16250 1800/18250 2010	440/19000/- -	- -	- -	1 3/4 HRS. 1 ENDURANCE	- -	- -	37' 0" -	6-20MM.-200	-	SPECIAL ARMY OBSERV. 1/24/42
SUPERMARINE SPITFIRE VA ONE RR-MERLIN XLV	1200/16000 1235/17750 1185	373/19500/- -	6.2/15000 37600 -	- -	500/241/- -	102 -	NONE -	35' 10" 30' 0" 242 SQ. FT.	8-305-500	ARMOR L.P. TANKS B.P. GLASS	AAF DAYTON FLIGHT TEST
SUPERMARINE SPITFIRE VB ONE RR-MERLIN XLV	1200/16000 1235/17750 1185	371/20000/- -	6.6/20000 37700 -	1200 1830	480/241/- 355/310/-	102 102	NONE NONE	36' 10" 30' 0" 242 SQ. FT.	4-305-550 2-20MM.-60 L.P. TANKS B.P. GLASS	ARMOR L.P. TANKS B.P. GLASS	S.A.C. 5/12/42

NOTES:

\*ESTIMATE  
\*\*AT WEIGHT OF 10850  
D ESTIMATED TAKE-OFF WEIGHT OF 10500

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CONFIDENTIAL MONTHLY CHART AIRPLANE CHARACTERISTICS & PERFORMANCE

WRIGHT FIGHTER

PAGE 3

DATE: 1 AUGUST 1944

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL ALT. MIL. CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH ALT. H.P. LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL.—1/2 ENGS. OUT	T. O. & LAND T. O. OVER M' OBS. LAND OVER M' OBS.	RANGE with		FUEL with	BOMBS at	WEIGHTS	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS —CAL.—RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					SPEEDS % POWER								
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM	W. EMPTY WEIGHT WEIGHT					
SUPERMARTINE SPITFIRE VC ONE RR-MERLIN 60	1200/18000 1225/17750 1185	354/25500/-	7.1/20000 5750	— —	1085/205 4747	— —	— —	NONE NONE	6190 5720	36'10" 33'10" 242.50 FT.	4-20MM-120 L.P. TANKS	ARMOR	AIR. TECH. SER. 870254 RPT. NO. 274 11/8/42
SUPERMARTINE SPITFIRE VIII ONE RR-MERLIN 60	1150/20000 1500/24000 1575	435/26500/-	7.5/20100 47250	2085 2220	742/2317	144	—	NONE	6085 6000	40'2" 31'4" 249.50 FT.	4-20MM-120 L.P. TANKS S.P. GLASS	ARMOR	M.A.P. THRU DAYTON SAC 11/8/42
SUPERMARTINE SPITFIRE IX ONE RR-MERLIN 61	1150/20000 1500/24000 1475	405/26500/-	4.2/16000 40750	1475 2150	472/2220	102	—	NONE	7450	40'10" 31'0" 242.50 FT.	4-20MM-120 L.P. TANKS S.P. GLASS	ARMOR	M.A.P. THRU DAYTON SAC 11/8/42
SUPERMARTINE SPITFIRE XX ONE RR-GRIFTON 11	1470/18200 1800/17250 2010	591/18000/-	— 25500	1400 2470	500/2477	105	—	NONE	3470	40'5" — —	4-20MM-120 L.P. TANKS S.P. GLASS	ARMOR	M.A.P. THRU DAYTON SAC 11/8/42
WESTLAND WELKIN TWO RR-MERLIN 61	1100/25000 1100/24000 1775	441/26000/-	5.25/20000 44300	1390 2050	1550/2457	954	—	NONE	12895 18700	33'3" 41'6" 450.50 FT.	4-20MM-120	—	M.A.P. THRU DAYTON SAC 11/8/42
WESTLAND WHITELAND TWO RR-PERDRENE 1	850/15000 850/15000 855	358/15000/-	8.4/20000 30000	1390 2250	540/1801 470-3587	115	—	NONE NONE	8040 10114 10222	45'0" 32'3" 251.50 FT.	4-20MM-50 OR 12-505	ARMOR L.P. TANKS S.P. GLASS	D.A.C. 5/12/42
BRISTOL BLENHEIM IVF TWO MERCURY XV	825/14000 — —	240/12000/-	14/18000 24200	— —	— —	— —	— —	— —	9295 14100 12560	55'4" 42'7" 459.50 FT.	4-303-500 1-505-400 1-505	—	AIR. INFO. DIV. NAVY DEPT. WASH. D.C. 8/43
DEHAVILLAND MOSQUITO K TWO MERLIN 75	1460/12000 1470/24700 —	417/29000/-	— 4000	— —	— —	— —	— —	— —	14421 19700	54'2" 41'0" 454.50 FT.	4-505-500 4-20MM-120	—	AS ABOVE

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**MONTHLY CHART** BRITISH BOMBARDMENT PAGE 4

**CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE**

MODEL & MFR. ENGINE	ENG. RATINGS NORMAL ALT. MIL./CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH ALT./H.P. LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL.—1.2 ENGS. OUT	T. O. & LAND T. O. OVER 10' OBS. LAND OVER 10' OBS.	RANGE with FUEL with BOMBS at WEIGHTS			DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS —CAL.—RIMS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE	
					MAX. NUM NORMAL WITH MAX. BOMBS	MAXIMUM NORMAL WITH MAX. BOMBS	NONE NORMAL MAX. W.B.					
ARMS.—WHITWORTH WHITLEY V TWO RR-MERLIN X	460/16000 1010/17700 — 1075	225/27000/- —	27.5/15000 — —	— — —	1935/170/- 1655/170/- 470/170/-	— — —	— — —	18945 — —	94'0" 107'4" 1235 SQ.FT.	1—503-600 4—503-1000	—	AIR TECH. SEC. ETDUSA REPT. NO. 274 10/29/42
AVRO LANCASTER I FOUR RR-MERLIN XX	1100/18000 1170/21000 1290	290/20000/- —	18.5/15000 A. 28500 B. 24500	4200 2550	5000/1961/- 2510/185/- 1150/195/-	5028 2950 1295	NONE 4250 7000	50000 50000 50000	102'0" 98'11" 1297 SQ.FT.	4—503-2500 4—503-1000 2—503-500	ARMOR L.P. TANKS S.P. GLASS	A.D./R.D.T. — M.A.P.
AVRO LANCASTER II FOUR BRIS. HERCULES	1300/14500 1540/19500 1610	291/19500/- —	20/19000 A. 21000 B. 25000	5000 2400	2950/195/- 2450/195/- 1075/195/-	3739 2885 1200	NONE 3500 1200	57970 58000 58000	172'0" 58'11" 1297 SQ.FT.	4—503-2500 4—503-1000 2—503-500	ARMOR L.P. TANKS S.P. GLASS	A.D./R.D.T. — M.A.P.
BRISTOL BEAUFORT I TWO BRISTOL TAURUS V	985/1750 1140/3500 1095	270/5500/- —	— —	— —	— 1765/198/-	— —	— 500	— 19080 *	50'0" 44'7" 508 SQ.FT.	2—503-400 2—503-900	—	AIR TECH. SEC. ETDUSA REPT. NO. 274 10/29/42
BRISTOL BLENHEIM IV TWO BRISTOL MERCURY	— 925/19000 920	295/16000/- —	7/10000 —	— —	— 1410/270/785	— 720 335	— 1200 1500	— 14400 14400	56'4" 42'0" 459 SQ.FT.	4—503 —	ARMOR L.P. TANKS S.P. GLASS	AEROPLANE 5/29/40 M.I.L. 5/28/41
BRISTOL BLENHEIM V BRISTOL MERCURY XV	— 925/15000 920	244/6000/- —	13800 —	— —	— 1090/170/-	— —	— 1000	— 17174 *	56'4" 42'0" 459 SQ.FT.	1—503-400 4—503-1000	—	AIR TECH. SEC. ETDUSA REPT. NO. 274 10/29/42
BRISTOL BUCKINGHAM TWO BRIS. CENTAURUS IV	— 1780/18250	510/19250/- —	15.0/19000 A. 22400 B. 27200	4550 2400	3500/215/- 1670/201/- 1670/201/-	1690 1250 1250	NONE 4000 4000	21274 35800 35850 35850	71'6.5" 46'8" 710 SQ.FT.	8—503-1000 2—503-700	—	A.D./R.D.T. — M.A.P.
DEHAVILLAND MOSQUITO MK V TWO RR-MERLIN XXI	1180/18000 1170/21000 1280	370/22200/- 102	43/17000 —	2650 2400	— 1720/- 1540/-	— 645 645	— 2000 2500	15129 20540 21510	54'2" 41'2" 430 SQ. FT.	NONE	ARMOR L.P. TANKS S.P. GLASS	I.T.M. #11 — DEH. CANADA
FAIREY ALBATROSS ONE BRIS. TAURUS XII	905/3750 1150/3500 1085	170/4800/- 59-85	10.8/19000 —	— —	— 790/124/- 580/124/-	— 254 254	NONE — 1500	7105 9500 12400	50'0" 40'0" 50750.FT.	1—503-400 2—503-750	ARMOR L.P. TANKS	MID-ON1 — 11/7/44
FAIREY BARRACUDA ONE RR-MERLIN 30	1240/7150 1250/8750 1500	280/11000/- —	5.7/8000 —	— —	— 565/120/-	— —	— 1510	9142 — 13177A	49'0" 40'4" 414 SQ. FT.	2—503 1—503-600 (RECONN. ONLY)	—	AIR TECH. SEC. ETDUSA REPT. NO. 274 10/29/42

NOTES:  
 \* OPERATIONAL CEILING; 500 FT/MIN RATE OF CLIMB  
 \*\* NORMAL RECONN. LOAD  
 A SERVICE CEILING AT MAXIMUM HEIGHT  
 B SERVICE CEILING AT MEAN WEIGHT  
 C MAXIMUM WEIGHT AT TAKE-OFF  
 D HIGH SPEED IN TEST ON MK IV AT BRIGHT FIELD WAS 359/20,500

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CONFIDENTIAL MONTHLY CHART BRITISH BOMBARDMENT AIRPLANE CHARACTERISTICS & PERFORMANCE PAGE 4

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL ALT. ML./CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH ALT. H.P. LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL. - 1/2 ENGS. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with FUEL with BOMBS at WEIGHTS			DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE		
					SPEEDS & POWER		NONE NORMAL MAXIMUM					WT. EMPTY WEIGHT WEIGHT	
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)							
FAIRY SWOOPFISH ONE BRIS. PEGASUS (I) OR (S)	750/4750	114/3500/-	12.4/1000	-	**	670/104.5	201	NONE	7894	4816"	2-305-500	L.P. TANKS ONLY	MID-ON! 11/7/42
HANDLEY PAGE HALIFAX (I) FOUR KR-MERL V X4	1180/18000 1470/21000 1280	256/19000/-	25.3/15000	3800	2250/196/- 1745/195/- 480/195/-	2815 2254 447	NONE 4250 11000	59000 59000 59420	9510"	10-1405-1000 4800 PDS. RES.	ARMOR L.P. TANKS S.P. GLASS	A.D./R.D.T.	
HANDLEY PAGE HALIFAX (II) FOUR BRIS. HERCULES (V)	1400/18600 1540/19400 1610	270/18500/-	25.6/15000	3900	2540/-/- 1810/-/- 550/-/-	4350 2254 424	NONE 4350 14000	58000 54500 58000	9910"	10-1405-1000 4800 PDS. RES.	ARMOR L.P. TANKS S.P. GLASS	A.D./R.D.T. M.A.P.	
HANDLEY PAGE HAMPTON TWO BRIS. PEGASUS XVII	750/14750 885/15000 965	235/15000/-	25.5/15000	3800	1720/-/- 700/-/-	785 575	2000 5000	22000 22900	12714"	7-505	L.P. TANKS	S.A.C. 5/12/42	
SHORT SHETLAND FOUR BRIS. CENTAURUS 3 S.M.	1650/19000 2000/20000 2400	248/12400/-	8.7/5000	-	1500/-/- 2920/-/- 1150/-/-	7000 4690 2520	NONE 4000 20000	120000 120000 120000	18016"	4-50-1000 4-40-950	-	A.D./R.D.T. M.A.P.	
SHORT STIRLING I FOUR BRIS. HERCULES XI	1200/14000 1510/11250 1500	225/10500	54.5/15000	4200	2485/200/- 2050/200/- 915/200/-	4530 2716 1492	2200 4000 14000	49200 70000 70000	8970"	8-105-1000	ARMOR L.P. TANKS S.P. GLASS	A.D./R.D.T. M.A.P.	
SHORT STIRLING III FOUR BRIS. HERCULES VI	1400/15900 1530/15900 1610	265/15500/-	25.4/12000	4000	2445/200/- 2015/200/- 890/200/-	5250 2705 1514	1500 5000 14000	49440 70000 70000	9910"	10-1405-1000	ARMOR L.P. TANKS S.P. GLASS	A.D./R.D.T. M.A.P.	
SHORT SUNDERLAND (I) FOUR BRIS. PEGASUS XVIII	750/14750 885/15000 965	195/13000/-	20/5000	4000	2370/-/- 2100/-/- 1885/-/-	4360 2688 2035	NONE 1900 4000	58000 58000 58000	11270"	5-405-1000 1-105-700	ARMOR L.P. TANKS S.P. GLASS	A.D./R.D.T. M.A.P.	
SHORT SUNDERLAND IV FOUR BRIS. HERCULES XVII	- 1775/19300/-	264/19500/-	6.5/5000	4000	1185/-/- 2345/-/- 2545/-/-	4080 4750 1450	NONE 1900 4500	41910 73550 73550	11270"	5-405-1000 1-105-700	ARMOR L.P. TANKS S.P. GLASS	S.B./R.D.T. M.A.P.	
VICKERS WARRICK I TWO PBR WASH S114-S	- 1500/14000	244/14000/-	18.0/15000	4500	1750/180/- 1460/180/-	1456 1225 710	4875 5275 3000	40000 40000 40000	9878"	4-505-2000 4-505-1000	-	A.D./R.D.T. M.A.P.	

NOTES:  
A. SERVICE CEILING AT MAXIMUM WEIGHT  
B. SERVICE CEILING AT MEAN WEIGHT  
\*\* NORMAL RECONNAISSANCE LOAD.

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CONFIDENTIAL MONTHLY CHART AIRPLANE CHARACTERISTICS & PERFORMANCE

BRITISH - FIGHTERS (U.S. BUILT)

PAGE 5

BRITISH - FIGHTERS (U.S. BUILT)

DATE: 1 AUGUST 1944

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH/ALT./H.P. LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL.-1/2 ENGS. OUT	T.O. & LAND T.O. OVER 50' OBS. LAND OVER 1/4' OBS.	RANGE with FUEL with BOMBS at WEIGHTS			DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE	
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM					WT. EMPTY WEIGHT WEIGHT WEIGHT
VICKERS WARWICK II Two BRIS. CENTAURUS IV	- 1075/18400	477/20000/-	20.0/15000 A. 24000 B. 26500	3300 3300	1675/180/- 1380/180/- 1070/180/-	1458 1223 978	5100 5500 8000	29000 47500 47500	95'8" 72'4" 1020 Sq. Ft.	8-.503-1000 2-.503-500	- - -	A.D./R.D.T.1 M.A.P.
VICKERS WELLINGTON IC Two BRIS. PEGASUS XVIII	750/14750 895/15000 950	235/15500/-	25/10000 15000	- -	2550/165/- 1805/165/- 1200/165/-	- - -	1000 2750 4500	18800 30000 -	86'0" 60'10" 830 Sq. Ft.	6-.503-1000	-	Air Tech. Sec ETOUA REPT. NO. 274 10/29/42
VICKERS WELLINGTON II Two RR-MERLIN X	960/18000 1010/17750 1075	244/17000/-	33.5/15000 18000	4050 -	- 1580/195/- -	- 900 737	- 3500 4500	20050 - 32000	86'0" 60'10" 830 Sq. Ft.	4-.503-1000 2-.503-500	YES	B.A.C. 5/12/42
VICKERS WELLINGTON III Two BRIS. HERCULES XI	1200/14000 1510/11250 1590	269/11500/-	28.0/15000 20000	- -	2200/185/- 1500/185/- -	- - -	1500 4500 -	21220 - 34500+	86'0" 60'10" 830 Sq. Ft.	8-.503-1000	-	Air Tech. Sec ETOUA REPT. NO. 274 10/29/42
VICKERS WELLINGTON VI Two RR-MERLIN IX	1035/30000 1095/30000 1225	312/32000/-	55/35000 A. 35700 B. 38500	3078 2355	- -	- -	- 4500	20250 - 31500	86'2" 62'8" 840 Sq. Ft.	4-.503-1000	-	A.D./R.D.T.1 M.A.P.
VICKERS WELLINGTON X Two BRIS. HERCULES VI	1300/13500 1530/15500 1610	265/15500/-	22.0/15000 A. 20500 B. 24000	2850 2550	2110/185/- 1450/185/- -	1235 900 -	1500 4500 -	21110 - 34500+	86'0" 60'10" 830 Sq. Ft.	6-.503-1000 2-.503-500	-	A.D./R.D.T.1 M.A.P.

NOTES:  
A. SERVICE CEILING AT MAXIMUM WEIGHT  
B. SERVICE CEILING AT MEAN WEIGHT  
+ MAXIMUM WEIGHT AT TAKE-OFF

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**MONTHLY CHART** BRITISH - FIGHTERS (U.S. BUILT) PAGE

**CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE**

BRITISH - FIGHTERS (U.S. BUILT) DATE: 1 AUGUST 1944

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL. CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH/ALT./H.P. LANDING	CLIMB TIME TO/FT. SERV. CEIL. CEIL.-1/2 ENGS. OUT	T. O. & LAND T. O. OVER 30' OBS. LAND OVER 30' OBS.	RANGE with FUEL with BOMBS at WEIGHTS			DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. REFERENCE TYPE	
					with SPEEDS & POWER	with SPEEDS & POWER	with SPEEDS & POWER				
BELL P-400 *AIRACOBRA-1*	1000/11000 1150/11800 1150	358/19400	5.1/10000 29000	-	-	195(U.S.) 120(U.S.)	5978 7982 7845	34'0" 29'5" 215 Sq. Ft.	4-.50-1000 2-1.50-270 2-2000-50	AACE-774 & AFDU-NO. 54	
ONE V-1710-E4 CURTISS HK-81A *TOMAHAWK 1*	- -	- -	- -	- -	-	-	-	-	2-.50 4-.50	AACE-763,4	
ONE V-1710-C-15 CURTISS HK-81A *TOMAHAWK 1*	- -	447/16000 83	7.7/15000 31400	1520	-	128 101	-	-	2-.50 4-.50	AACE-763	
ONE V-1710-C-15 CURTISS HK-87A *KITTYHAWK 1*	1000/11500 1150/11800 1150	352/14400 322/16200	14.2/20000 3700	-	* 3	1060 / - / - 550 / - / -	199 148	5973 8805 8480	27'4" 21'9" 245 Sq. Ft.	6-.50-2460*	AACE/783
ONE V-1710-F3R CURTISS HK- *KITTYHAWK 1*	1010/15000 1120/18500 1500	354/20400	10.9/20000 34300	-	-	209 138	5482 8410	-	-	AACE/783,4	
ONE V-1550-1 DOUGLAS DB-7 *HAWOC 1*	1000/12500 1050/13100 1200	-	-	-	-	326	11775 10352	51'4" 47'5" 465 Sq. Ft.	-	-	
TWO R-1820-S1C4G DOUGLAS DB-7 *HAWOC 1*	1275/11500 1600	529/14000	-	2540	-	326 458	14144 19741 18751	48'0"	-	AACE/771	
TWO R-2600-55B GRUMMAN-G-36 *MARTLETT 1*	900/15000 1200	-	-	1900	-	-	-	-	4-.50	AACE/760	
ONE R-1820-S205A GRUMMAN-G-36 *MARTLETT-11*	1000/12500 1050/13100 1200	-	-	1710	-	890 / - / - 150 130	5499 7790 7350	38'3" 29'1" 261 Sq. Ft.	6-.50-225	AACE/762,4	
ONE R-1820-S3C4G GRUMMAN-G-36 *MARTLETT 111*	-	NO DATA	AVAILABLE	-	-	-	NO DATA AVAILABLE	-	-	-	

NOTES:  
 \* TESTED WITH JETTISONABLE FUEL TANK GR. WT. 8840#  
 \*\* AT 17500# AND 0° FLAP  
 # ALLOWANCE MADE FOR WARM UP, TAKE OFF, ETC.  
 \* STALL AIR RANGE.  
 \* ANOTHER TEST AT 7300# GAVE 331 MPH  
 † AT WEIGHT= 5366#

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MONTHLY CHART

BRITISH - FIGHTERS (U.S. BUILT)

PAGE 8

CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE

BRITISH - FIGHTERS (U.S. BUILT)

DATE: 1 AUGUST 1944

MODEL & MFR. ENGINE	ENG. RATINGS NORMAL/ALT. ML./CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH/ALT./HP LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL.-1/2 ENGR. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND-OVER 50' OBS.	RANGE with FUEL with BOMBS at WEIGHTS			DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS CAL. RDS. OF AMM. PER GUN	COMBAT PROT. REFERENCE TYPE
					MAXIMUM NORMAL WITH MAX. BOMBS	MAXIMUM NORMAL WITH MAX. BOMBS	MAXIMUM NORMAL WITH MAX. BOMBS			
SPITFIRE MARTLETT IV	- -	- -	- -	- -	- -	- -	- -	5591 7760	- -	44EE/762,8
ONE P-1820-2054-S	-	-	-	-	-	-	-	-	-	-
NORTH AMERICAN NA-73 MUSTANG 1*	1000/11000 1150/11800 1150	370/15000	7.2/15000 30000	1920	950 / - / -	158 (U.S.)	-	-	-	44EE/781
ONE V-9710-F3P	-	-	-	-	-	-	-	-	-	-

NOTES:

- \* 15° FLAP FOR TAKEOFF.
- \* ONE TANK LABELLED 84 U.S. GALS. WOULD HOLD ONLY 72 GALS.

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CONFIDENTIAL MONTHLY CHART AIRPLANE CHARACTERISTICS & PERFORMANCE

BRITISH - BOMBARDMENT (U.S. BUILT)

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BRITISH - BOMBARDMENT (U.S. BUILT)

DATE: 1 AUGUST 1944

MODEL & MFR. ENGINE	ENG. RATINGS NORMAL ALT. MIL. CRIT. ALT. TAKE-OFF & L.	SPEEDS HIGH ALT./HP LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL.—1.2 ENGS. OUT	T. O. & LAND T. O. OVER 30' OBS. LAND OVER 30' OBS.	RANGE with SPEEDS & POWER		FUEL with		BOMBS at		WEIGHTS WT. EMPTY WEIGHT WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS —CAL.—RDS. OF AMN. PER GUN	COMBAT PROT. REFERENCE TYPE
					MAXIMUM NORMAL WITH MAX. BOMBS	MAXIMUM NORMAL WITH MAX. BOMBS	NONE NORMAL MAXIMUM	WT. EMPTY WEIGHT WEIGHT						
LOCKHEED 414 "HUDSON III" Two R-1820-5205A	900/14200 1200	244/15100	—	2100	13 HRS. 7.5 HRS.	896 544	— —	1080 —	— —	55'6" 44'3" 551 Sq. Ft.	2-503-1500 3-303-900 Tot. 2-303-2000	—	AEE/789, D.	
LOCKHEED 414 "HUDSON IV" Two R-1840-5046	— —	260/10000	12.0/10000	2500	— —	— —	— —	— —	— —	— — 20000 Test	— —	—	AEE/789, B.	
LOCKHEED 414 "HUDSON V" Two R-1840-5404-B	1000/12500 1050/14100 1200	—	—	—	—	—	—	—	—	—	—	—	—	
LOCKHEED VEGA 47 "VENTURA" Two R-2800-S1A4G	1500/7500 1850/27000 1840	—	—	—	—	—	—	—	—	17458 — 26700	—	4-303-1000 2-303-750 2-303-250	AEE/790	
MARTIN 167 MARYLAND I Two R-1840-5046	900/12000 1050/7700	244/9000 60	12.1/15000 27450	1450	1870/179/—	750 U.S.	—	—	—	11000 17890 15870 17890 Test	61'4" 46'8" 542 Sq. Ft.	6-303-500	AEE/785	
MARTIN 167 MARYLAND II Two R-1840—	NO DATA	AVAILABLE	—	—	—	NO DATA	AVAILABLE	—	—	—	—	—	—	
MARTIN 187 BALTIMORE I Two R-2600-4A84	1475/11500 1600	—	—	—	—	—	—	—	—	—	4-30 4-30-500 2-30-400 2-30-400	—	—	
MARTIN 187 BALTIMORE II Two R-2600	NO DATA	AVAILABLE	—	—	—	NO DATA	AVAILABLE	—	—	—	—	—	—	
MARTIN 187 BALTIMORE III Two R-2600-4A84	1275/11500 1600	301/10400	10.5/14000 23500	—	770/—	488	2000	20330	—	—	—	—	AEE/780, A.	
NORTH AMERICAN NA40 MITCHELL I Two R-2600-9	1350/13000 1450/12000 1700	—	—	—	—	—	—	—	—	—	—	—	AEE/794	

NOTES:  
 \* - AT 20500#  
 A - ALLOWING 91 U.S. GAL. FOR TAKEOFF, ETC.  
 Z - RANGE GIVEN IS PRACTICAL RANGE - 75% STILL AIR RANGE

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**MONTHLY CHART** BRITISH - BOMBARDMENT (U.S. BUILT) PAGE 10

**CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE**

BRITISH - BOMBARDMENT (U.S. BUILT) DATE: 1 AUGUST 1944

MODEL & MFR. ENGINE	ENG. RATINGS NORMAL ALT. MIL./CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH ALT./H.P. LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL.-1/2 ENGS. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with SPEEDS % POWER		FUEL with BOMBS at		WEIGHTS WT. EMPTY WEIGHT WEIGHT	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RPM. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL WITH MAX. BOMBS	MAXIMUM NORMAL WITH MAX. BOMBS	NONE NORMAL MAXIMUM	WT. EMPTY WEIGHT WEIGHT					
BOEING 299T *FORTRESS II*	1000/25000 1200/25000 1200	300/25000/-	15.1/15'00	2950 2400	2650/190/-	2520	2700	22065	-	2-50-450	-	A4EE/770, A AND 80/RT1	
Four R-1820-65 CONSOLIDATED 2 B *CATALINA*					1815/190/-	1758	7400			2-50-200			
Two R-1830- CONSOLIDATED-18-30 *LIBERATOR I*	1000/12500 1050/13100 1200			2800					120'0" 66'0" 104 Sq. Ft.			A4EE/769	
Four R-1830-53C4G CONSOLIDATED-18-30 *LIBERATOR II*	1000/12500 1050/13100 1200	250/14000/-			2200/-/-		8000	35000		4-303-600 500 RPM. 4-303-2200 4-303-1000 2-303-300		R.F.D.U.No 44	
Four R-1830-43 CONSOLIDATED-18-30 *LIBERATOR III*	1100/25000 1200/25000 1200	305/25000/-	25.0/10000	3885	3000/-/- 2180/-/- 1540/-/-	3120 2270 1610	NONE 4000 8000	33500				A4EE/765, A	
DOUGLAS DB-7 *BOSTON I*	900/12000 1000/11500 1050	307/10000/-	13/20000	2025	2110/-/- **750/-/- 880/180/-								
Two R-1830-SC3G DOUGLAS DB-7 *BOSTON II*													
Two R-1830 DOUGLAS DB-7 *BOSTON III*	1275/11500 1600	312/13000/-		3540 A. 2835 B.	620/170/- 880/170/-	512 382 526	2000 2000	15718 25000 21250 22400	61'4" 47'3" 455 Sq. Ft.	4-303-500 4-20MM-60 2-303-500		A4EE/752, C	
Two R-2500-45B LOCKHEED-414 *HUDSON I*	900/6700 1100	239/8000/-		2970								A4EE/739	
Two R-1820-G102A LOCKHEED-414 *HUDSON II*	900/6700 1100							20500 - TEST				A4EE/	

NOTES:  
 \* AT 53000# GROSS WEIGHT  
 \*\* ESTIMATED  
 A AT 25000# GROSS WEIGHT WITH 15° FLAP  
 B AT 21500# GROSS WEIGHT WITH 15° FLAP  
 C ARMAMENT USED IN "INTRUDER" VERSION  
 D AT 17500# GROSS WEIGHT

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CONFIDENTIAL MONTHLY CHART AIRPLANE CHARACTERISTICS & PERFORMANCE

BRITISH - BOMBARDMENT (U.S. BUILT)

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BRITISH BOMBARDMENT (U.S. BUILT)

DATE: 1 AUGUST 1944

MODEL & MFR. ENGINE	ENG. RATINGS NORMAL ALT. MIL. CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH ALT./HP LANDING	CLIMB TIME TO FT. VERY CRIL CEL. -12 ENGL. OUT	T. O. & LAND T. O. OVER SP. ONS. LAND OVER SP. ONS.	RANGE with S SPEEDS & POWER		FUEL with	BOMBS	at	WEIGHTS	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT CAL. OF GUNS -CAL. -RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM	WT. EMPTY WEIGHT WEIGHT WEIGHT						
NORTH AMERICAN N3-90 MITCHELL II	1350/18000 1470/12000 1700	394/14800	10.8/15000 25700	-	-	-	-	-	-	-	-	2-.50 - 2-.50 - 1-.50 -	-	A4EE/754, A
Waco R-2600-13									25000 - TEST					
VOUGHT SIKORSKY V-456 CHESAPEAKE I	750/8800 825	222/4700	20.0/10000 10000	2300	1170/ - / -	245 (U.S.)	500		9040			4-.50 - 1-.50-1400	-	A4EE/773
One R-1535-SP4G		**	**	**					3620					
VOUGHT SIKORSKY KINGFISHER I		165/8900	29.2/10000 11600	2153	730/106/ -	254 .50			4990			1-.50-500 1-.50-500	-	A4EE-769
One R-285-AN-2					440/106/ -	80	500		5435					
VULTEE VENGEANCE I														
One R-2600-45B-5												6-.50 -	-	

NOTES: \* AT 89408  
\*\* AT MAX. GROSS WEIGHT

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CONFIDENTIAL MONTHLY CHART AIRPLANE CHARACTERISTICS & PERFORMANCE

GERMANY - FIGHTERS

PAGE 12

DATE: 1 AUGUST 1944

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF & L.	SPEEDS HIGH/ALT./HP. LANDING	CLIMB TIME TO/FT. SERV. CEIL. CEIL.-1/2 ENGS. OUT	T. O. & LAND T. O. OVER 30' OBS. LAND OVER 30' OBS.	RANGE with SPEEDS & POWER		FUEL with	BOMBS at	WEIGHTS		DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-BDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL WITH MAX. BOMBS	MAXIMUM NORMAL WITH MAX. BOMBS	NONE NORMAL MAXIMUM	WT. EMPTY GROSS WEIGHT GROSS WEIGHT	GROSS WEIGHT					
FOCKE-WULF 190A-3 (1) BMW - 801D FIGHTER	1450/- 1600/14000 1695/ S.L.L.	395/17000/- 110	5.25/18000 38000 NONE	2250 2700	820/220/- 380/335/- 440/230/-	216 138 138	NONE NONE NONE	5240	5200 6500 9800	34'6" 29'2" 203 Sq. Ft.	2-7.9MM-1000 2-20MM-250 2-27MM-50	ALL	TECH. DATA FILES	
JUNKERS JU88C5 (2) BMW - 801D NIGHT FIGHTER	1450/18000 1530/20000 1695/ S.L.L.	347/17500 -	10.5/18500 30200 -	2310 2055	1620/243/- 800/230/- -	948 444 -	NONE	21000 27800 35000	55'0" 47'0" 590 Sq. Ft.	3-20MM-120 7-7.9MM-1000	ALL	-		
MESSERSCHMITT ME-109F (1) DB-601E FIGHTER	1220/15000 1390/14500 1395/ S.L.L.	390/22000/- -	5.7/18000 39000 NONE	1800 2100	1050/205/- 500/245/- 540/200/-	185 185 105	NONE -	4740 EST. 5980 7000	32'6" 29'3" 172 Sq. Ft.	2-7.9MM-300 1-20MM-200	ALL	-		
MESSER: ME-109G2, 4A6 (1) DAIM.BENZ: DB605A FIGHTER	1330/16000 1520/15000 1455/ S.L.L.	395/22000/- -	6.3/18000 37500 NONE	1800 2100	1020/210/- 415/315/- 535/210/-	185 105 105	NONE	4985 7035 6670 7300	32'6" 29'3" 172 Sq. Ft.	2-7.9MM-300 1-20MM-200 2-20MM OPTIONAL	ALL	-		
MESSERSCHMITT 110 G (2) DB-605B FIGHTER	- 1350/18700 -	358/19000/- -	7.3/18000 35800 NONE	- -	1700/205/- 905/205/- -	575 280 280	515 -	14500 20900 16700 -	53'11" 40'4" 415 Sq. Ft.	4-7.9MM-1000 2-7.9MM-750 2-20MM-180	ALL	-		
MESSER: ME-210C-1 (2) DAIM.BENZ: DB-605E FIGHTER-BOMBER	- 1350/18700 -	370/21000/- -	11.8/19000 35000 -	- -	2350/245/- 1350/240/- 1240/245/-	906 506 506	- 1100 2850	15500 24500 21500 23500	53'0" 46'3" 400 Sq. Ft.	2-7.9MM-300 2-13MM-450 2-20MM-300	ALL	-		
MESSER: ME-410A-1 (2) DAIM.BENZ: DB-603A-2 FIGHTER-BOMBER	- 1700/19000 -	395/22000/- -	11.5/19000 39000 -	- -	2130/250/- 1190/255/- 1110/250/-	906 506 506	- 1100 2850	18000 26000 24000 26000	53'8" 40'10" 400 Sq. Ft.	2-20MM - 2-7.9MM - 2-13MM -	ALL	-		

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MONTHLY CHART  
 CONFIDENTIAL AIRPLANE CHARACTERISTICS & PERFORMANCE

GERMANY - BOMBERS

PAGE 27

DATE: 1 AUGUST 1944

MODEL & MFR. ENGINE	ENG. RATINGS NORMAL ALT. MIL./CRIT. ALT. TAKE-OFF S. L.	SPEEDS HIGH ALT./HP LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL.-1/2 ENGS. OUT	T. O. & LAND T. O. OVER 59' OBS. LAND OVER 59' OBS.	RANGE with SPEEDS & POWER		FUEL with BOMBS	BOMBS at WEIGHTS	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. REFERENCE TYPE	TECH DATA FILES
					MAXIMUM NORMAL WITH MAX. BOMBS	MAXIMUM NORMAL WITH MAX. BOMBS						
DORNIER DO-217E (2) BMW - 801A BOMBER	1555/14250 1495/17750 1550/ S.L.	310/17000	21/17000	4500	2100/2200 - 1010/2050 - 950/2450 -	1550 780 780	NONE 4400 5500	22500 34000 32000 34000	52'10" 56'10" 59'0" Sq. Ft.	1-20MM-60 2-7.9-1000 4-7.9MM - 2-13MM-450	ARMOR	TECH DATA FILES
FOCKE-WULF FOCKE (4) BRANCO-FAPNIR BOMBER	755/14000 940/12000 985/ S.L.	235/13000 95	11.7/14000 21500	-	2450/1700 - 1250/1700 - 1140/2150 -	2210 1105 1004	3300 3400 21000	47200 - 50500	108'10" 78'10" 1200 Sq. Ft.	2-20MM-200 4-7.9MM-500 2-13MM-450	ARMOR	
HEINKEL HE-111G (2) DB-601A BOMBER	850/13050 1035/13000 1085/ S.L.	274/12500 85	15/13000 26000	2200 1800	2540/2300 - 1600/2100 - 1290/1950 -	1321 912 848	NONE 4400 5010	25500 25500 25000	73'10" 53'8" 940 Sq. Ft.	1-20MM-200 5-7.9MM-500 1-13MM-450	ALL	
HEINKEL HE-111 (2) DB-610 BOMBER-RECONN.	- 2800/17000	-	26/17000 32000	-	3550/2100 - - 580/2100 -	EST. 2080 3080 900	1100 15800 22000	41000 58000 58000	103'0" 57'0" 1055 Sq. Ft.	EST. 5-10-13MM AND 20MM.	ALL	
HENSCHEL HS-122 (2) Gnome-Rhone 14M BOMBER	550/13100 890/8000 890/ S.L.	275/9000	7/13000 24500	3000 1800	690/1500 - - 440/1500 -	240 150 150	220 220 770	3500 - 11400 12000	44'0" 33'4" 305 Sq. Ft.	2-7.9MM-1000 2-20MM-200 1-13MM-30	ALL	
JUNKERS JU-52/3M (1) BMW - 132A TROOP TRANSPORT	- 650/ S.L.	165/ S.L.	- 20000	1920 1800	790/1900 - 530/1900 - -	540 435 -	- 22 TROOPS -	- 28100 28100	- 90'10" 52'0" 1140 Sq. Ft.	- 5-7.9MM- -	NONE	
JUNKERS JU-86P-1 (2) JUNKERS JU-207A PRESS. CABIN BOMBER	800/25000 1000/25000 1000/ S.L.	290/30000	- 42000	1980 2280	1700/ - - 1500/2400 - -	540 580 -	NONE 1750 2200	- 22500 -	* 78'0" 51'0" 900 Sq. Ft.	NONE	NONE	
JUNKERS JU-87D (1) JUNKERS JU-211U DIVE BOMBER	1175/14500 1500/12500 1350/ S.L.	255/13500	19/15000 18500 NONE	-	1220/1800 - 720/1800 - 620/1850 -	350 204 204	NONE 2080 4400	8900 11500 12500 14300	45'4" 36'0" 335 Sq. Ft.	4-7.9MM-1000	ALL	
JUNKERS JU-88A-1 (2) JUNKERS JU-211F BOMBER	- 1075/13500	275/14000	31.8/17500 28000	3000 1540	1855/2240 - 1195/2300 - 540/2250 -	1130 770 445	NONE 2500 5400	25500 26000 27000	55'0" 47'0" 590 Sq. Ft.	1-20MM- 4-7.9MM- -	ALL	
JUNKERS JU-88B (2) BMW 801 G-2 BOMBER	- 1550/20000	325/20000	- 34000	-	800/2540 - -	990 540 IMP.	- 3800	- -	72'0" 49'0" 600 Sq. Ft.	1-20MM - 3-13MM - -	ALL	

NOTES: \* ESTIMATED

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CONFIDENTIAL MONTHLY CHART JAPANESE AIR FORCE AIRPLANE CHARACTERISTICS & PERFORMANCE

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DATE: 1 AUGUST 1944

MODEL & MFR. ENGINE	ENG. RATINGS NORMAL/ALT. MIL./CRIT. ALT. TAKE-OFF/R.L.	SPEEDS HIGH/ALT./HP LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL.-1/2 ENGR. GUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with SPEEDS % POWER		FUEL with	BOMBS at	WEIGHTS	DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CAL.-RDS. OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE
					MAXIMUM NORMAL	MAXIMUM NORMAL	NONE NORMAL MAXIMUM	WT. EMPTY WEIGHT DESIGN GROSS WEIGHT					
TYPE 0 F ZEKE ONE NAKAJIMA SAKAE 12 NK-1 FIGHTER	950/13750	328/16000/-	2780/ S.L. 38500	-	1480/149/- 895/145/-	225* 139	-	-	3718 6135 5555	39'3" 29'7" 248 Sq. Ft.	2-7.7MM - 500 2-20MM-50	NONE	For. Equip.
TYPE 0 F HAMP ONE NAKAJIMA SAKAE 21 FIGHTER	1020/5400 950/ S.L.	328/16500/- 65	3410/ S.L. 35200	-	1580/146/- 1180/153/-	228* 134	-	-	5913 5331 5750	35'2" 29'9" 238 Sq. Ft.	2-7.7MM - 500 2-20MM-100	NONE	" "
TYPE 3 F TONY ONE TYPE 2 KAWASAKI FIGHTER	1100/-	370/18000	-	-	1050/- / - 700/- / -	- 192	-	-	6550 5800	38'4" 30'0"	4-12.7MM -	ARMOR L.P. TANKS	" "
TYPE 2 F TOJO ONE 1450 NAKAJIMA FIGHTER	1450/-	350/12300	-	-	-	197 128	-	-	5200 5536 6080	31'0" 29'3" 185 Sq. Ft.	2-7.7MM -	ARMOR L.P. TANKS (INEFFECTIVE)	" "
TYPE 2 2EF TWO MITSU 2 FIGHTER	945/17800 1050/8000	330/18000/-	34000	-	850/- / -	302	-	-	11500	50'0" 37'0" 335 Sq. Ft.	4-12.7MM - 1-37MM -	NONE	" "
TYPE 1 F OSCAR TYPE 99 FIGHTER	950/15000 990/ S.L.	315/15000/-	35000	-	1225/175/-	297* 149	-	-	3490 5700 4520	37'7" 29'0" 237 Sq. Ft.	2-13MM-220	L.P. TANKS (INEFFECTIVE) 13MM ARMOR	" "
TYPE 97 F NATE ONE HIKARI FIGHTER	800/13000	280/13000/-	3500 FPM 33000	-	800/200/- 450/233/-	161* 80	-	-	3250 5000 4400	35'7" 24'4"	4-7.7MM - 550	NONE	" "
TYPE 0 FFP RUFE ONE NAKAJIMA SAKAE 12NK-1 SEAPLANE FIGHTER	950/13750	280/16000/-	2500/ S.L. 35500	-	1480/149/- 895/145/-	225** 139	-	-	4145 5435 5920	39'5" 33'2" 248 Sq. Ft.	2-7.7MM-500 2-20MM- 50	NONE	" "
TYPE 0 2EB HELEN TWO NAKAJIMA 1450 MEDIUM BOMBER	1450/ S.L.	299/19700/-	17.1/20000 29200	-	2040/233/-	1200 1200	2290 2290	-	14750 26491	58'0" 54'0" 755 Sq. Ft.	3-7.7MM- 1- 21MM-	L.P. TANKS (INEFFECTIVE) ARMOR	" "
TYPE 97 2EB SALLY M42 TWO TYPE 100 MITSU MEDIUM BOMBER	1450/-	285/13000/-	30000	-	950/- / -	-	-	5600	21500	74'8" 48'0"	3-7.7MM - 1-12.7MM-	L.P. TANKS (INEFFECTIVE)	" "

NOTES: # - REVISED

\* - JETTISONABLE FUEL TANK.  
\*\* - EXTRA FUEL CARRIED IN MAIN FLOAT.  
# - THIS IS O. SSF ZEKE EQUIPPED WITH 1 MAIN AND TWO WING TIP FLOATS.

JAPANESE DO NOT USE NAME OF MANUFACTURERS IN DESIGNATING THEIR AIRCRAFT.

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**CONFIDENTIAL** MONTHLY CHART **AIRPLANE CHARACTERISTICS & PERFORMANCE**

JAPANESE AIR FORCE

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JAPANESE AIR FORCE

DATE: 1 AUGUST 1944

MODEL & MFR. ENGINE CONT. NO. PLANES	ENG. RATINGS NORMAL ALT. MIL./CRIT. ALT. TAKE-OFF/S. L.	SPEEDS HIGH ALT./H.P. LANDING	CLIMB TIME TO FT SERV. CEIL. CEIL-1/2 ENGR. OUT	T. O. & LAND T. O. OVER 50' OBS. LAND OVER 50' OBS.	RANGE with FUEL with BOMBS at WEIGHTS			DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS -CALIBERS OF AMM. PER GUN	COMBAT PROT. TYPE	REFERENCE	
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	NONE NORMAL MAXIMUM					WT. EMPTY WEIGHT WEIGHT
TYPE 1 2EB BETTY Two KAKI 15 MEDIUM BOMBER	1520/14800 1520/	288/15900/-	50000	-	3000/180/- 1800/180/-	1455 765	1750	14700 29600 20442	81'10" 60'6" -	4-7.7MM-500 1-20MM-92	L.P. TANKS (INEFFECTIVE)	FOR EQUIP.
TYPE 99 2EB LILY MK2 TWC TYPE 2 NAKAJIMA LIGHT BOMBER	1150/5111	310/17000/-	10.4/20000 51900	-	1020/232/-	450 450	892 1500	9190 14500	56'10" 45'4" 445 SQ. FT.	4-7.7MM-	NO ARMOR L.P. TANKS (INEFFECTIVE)	-
TYPE 99 8D VAL ONE KINSEI 44 DIVE BOMBER	990/5500 1074/5510 1000/	245/5200/-	27000	-	1320/140/- 875/190/-	314 271	814	5900 5970	48'0" 39'0"	5-7.7MM-	NONE	-
TYPE 97 TB KATE ONE NAKAJIMA SAKAE 1 TORPEDO BOMBER	1000/-	250/10000/-	24000	-	1100/154/- 980/170/-	- 2	800 1750	4850 7250 8450	52'0" 34'0" 370 SQ. FT.	2-7.7MM-500 1-7.7MM-500	NONE	-
TYPE 0 2ER DINAH TWO-OPN MITSUBISHI RECONNAISSANCE	1050/-	315/25000/-	-	-	-	-	-	-	50'0" 36'0"	NONE	NONE	-
TYPE 2 R JUDY ONE 21 ATSUTA RECONNAISSANCE	1200/	-	-	-	-	443* 275	-	5415 8040	37'4" 34'0" 254 SQ. FT.	1-7.7MM-	-	-
TYPE 0 FP PETE ONE SUISEI 15 REC. FLOAT PLANE	-	220/9000/-	25000	-	-	-	-	4192 5525	37'0" 26'5"	2-7.7MM-500 1-7.7MM-500	NONE	-
TYPE 97 4FB MAVIS FOUR-KINSEI 45 FLYING BOAT	900/15000	150/14000/-	25000	-	2400/110/- 1900/217/- 1710/110/-	2450 1747 1747	1500	28000 50000 44100	151'0" 82'0"	4-7.7MM- 1-20MM-	NONE	-
TYPE TB JILL ONE KASEI 25 TORPEDO BOMBER	-	-	-	-	-	-	-	-	48'5" 35'0"	1-7.7MM-	NONE	-

NOTES: \* - JETTISONABLE FUEL TANK.

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RUSSIAN AIR FORCE

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AIRPLANE CHARACTERISTICS & PERFORMANCE

RUSSIAN AIR FORCE

DATE: 1 AUGUST 1944

MODEL & MFR. ENGINE	ENG. RATINGS NORMAL ALT. ML. CRIT. ALT. TAKE-OFF & L.	SPEEDS HIGH ALT. W.P. LANDING	CLIMB TIME TO FT. SERV. CEIL. CEIL.—1/2 ENGS. OUT	T. O. & LAND T. O. OVER 30' OBS. LAND OVER 30' OBS.	RANGE with FUEL with BOMBS at WEIGHTS			DIMENSIONS SPAN LENGTH WING AREA	ARMAMENT NO. OF GUNS —CAL.—BDS. OF AMM PER GUN	COMBAT PROT. TYPE	REFERENCE	
					MAXIMUM NORMAL (WITH MAX. BOMBS)	MAXIMUM NORMAL (WITH MAX. BOMBS)	WT. EMPTY 40 LBS 60 LBS 80 LBS					
I-16 M-35 ENGINE FIGHTER	1000/18500	290/344.7 300/18000	5.7/15000 22000 NONE	— — —	120/170/- 245/298/- —	67 57 —	— — —	8300 8300 —	29'2" 29'4" 125 SQ. FT.	4-7.5 MM	—	ATS ETOUSA 9/28/43
I-17 M-100 ENGINE FIGHTER	— — 1100	405/12700/- — —	5.2/12700 35000 NONE	— — —	641/274/- — —	— — —	— — —	— — —	55'0" 24'4" 151 SQ. FT.	4 MG	—	M. I. D. 10/10/40
MIG-3 M-35 ENGINE FIGHTER	1200/14500	374/22000/- 310/344.7	3.5/20000 35000 NONE	— — —	470/250/- 590/310/- —	105 105 —	— — —	6700 5700 —	29'0" 26'0" 140 SQ. FT.	2-7.5 MM 1-12.7 MM	ARMOR	ATS ETOUSA 9/28/43
IL-2 (STORMOVIK) M-35 ENGINE DIVE BOMBER	1500/14000	260/344.7/- 274/3050/-	8.5/10000 — —	— — —	330/170/- 260/235/- —	120 120 —	1100 1100 —	22500 12500 —	47'11" 50'0" 355 SQ. FT.	2-20 MM 2-7.5 MM	ARMOR L.P. TANKS S.P. GLASS	—
TB-5 FOUR, 14 ENGINES HEAVY BOMBER	— — 500	280/-/- — —	24/14000 26000 —	— — —	1250/-/- — —	— — —	— — —	— — —	— — —	6 MG	—	M. I. D. 4/25/41
SB-5 TWO, M-105 ENGINES BOMBER	370/11000	240/344.7/- 260/14000/- 69	10/14000 26248 —	— — —	1085/150/- 850/220/- 480/150/-	420 420 242	1320 1320 2540	10050 17000 —	66'11" 41'0" 616 SQ. FT.	2-7.5MM-650 1-7.5MM-1050 1-7.5MM-700	ARMOR L.P. TANKS	ATS ETOUSA 9/28/43
DB-5F TWO, M-89 ENGINES BOMBER	1100/19700	270/15000/- — —	14/14400 26500 —	— — —	2500/150/- 1480/230/- 1000/210/-	1000 808 540	3300 2200 5400	21750 10700 21750	70'2" 40'7" 705 SQ. FT.	2-7.5MM-1100 2-7.5MM-1100 1-7.5MM-650	—	—
PE-2 TWO, M-105 ENGINES DIVE BOMBER	1050/12000	265/344.7/- 245/14000/-	10/14000 — —	— — —	580/185/- 485/255/- —	258 258 —	2200 2200 —	15500 15500 —	65'11" 41'8" 355 SQ. FT.	5-7.5MM- 1-12.7MM-	—	—
TB-7 FOUR, M-24A ENGINES HEAVY BOMBER	1200/19500	245/344.7/- 275/22000/-	26.4/22000 52000 —	— — —	2450/185/- 2200/235/- 1850/185/-	2580 2580 1420	4400 4400 8800	54000 54000 65000	152'0" 74'0" 2050 SQ. FT.	2-7.5MM-470 1-20MM-150 1-20MM-200 2-12.7MM-200	—	—

NOTES: